F I G. 1

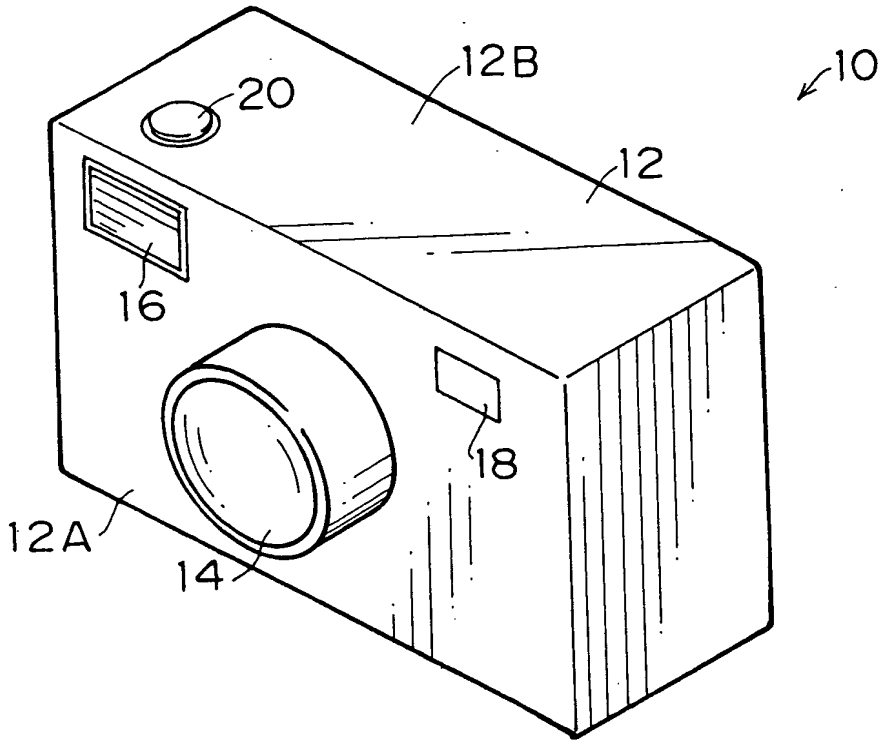
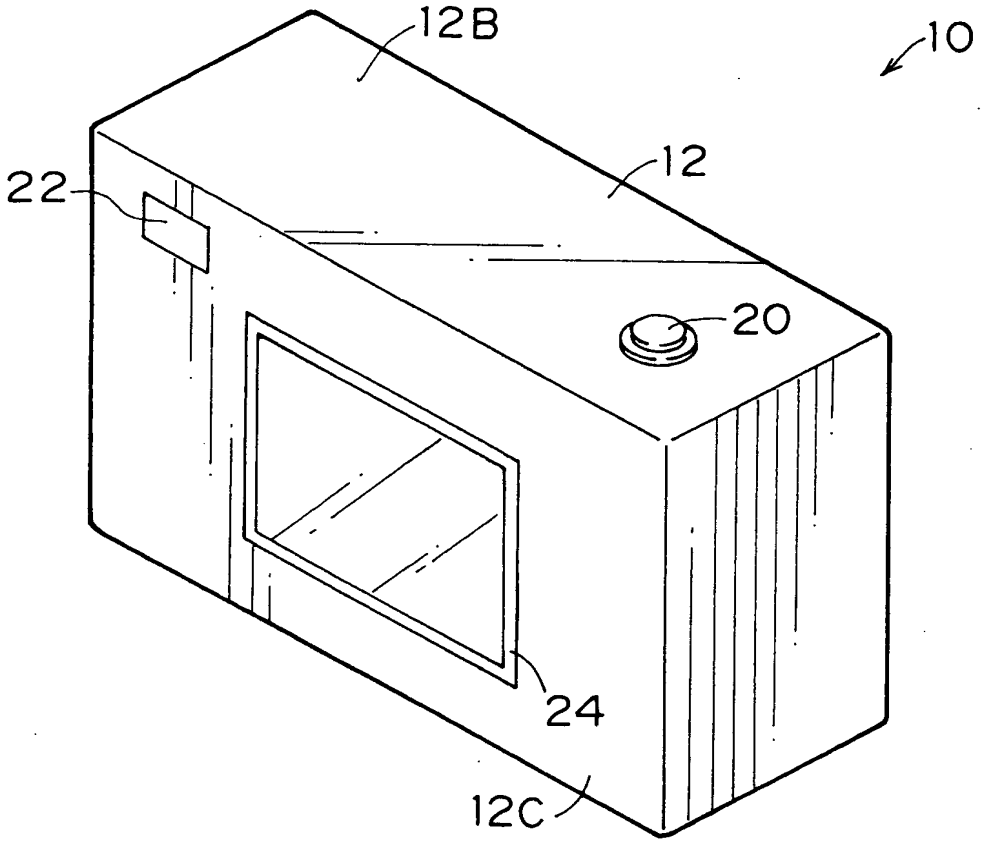


FIG. 2



F I G. 3

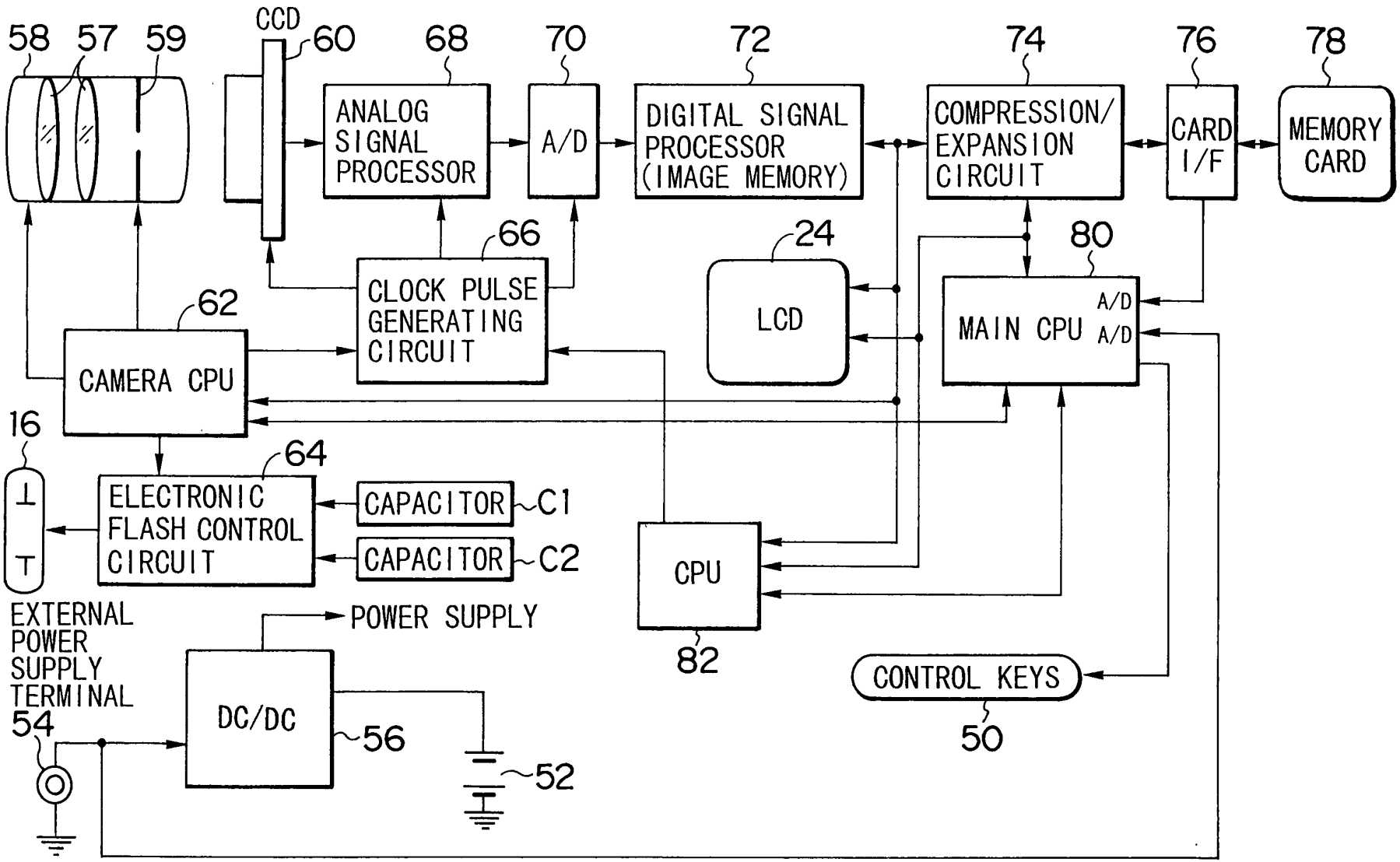

58
57
59
CCD
60
68
70
72
74
76
78
ANALOG SIGNAL PROCESSOR
A/D
DIGITAL SIGNAL PROCESSOR (IMAGE MEMORY)
COMPRESSION/ EXPANSION CIRCUIT
CARD I/F
MEMORY CARD
66
24
80
CLOCK PULSE GENERATING CIRCUIT
LCD
MAIN CPU
A/D
A/D
62
CAMERA CPU
16
64
ELECTRONIC FLASH CONTROL CIRCUIT
CAPACITOR
C1
CAPACITOR
C2
CPU
82
EXTERNAL POWER SUPPLY TERMINAL
54
POWER SUPPLY
DC/DC
56
52
CONTROL KEYS
50

FIG. 4 (A)

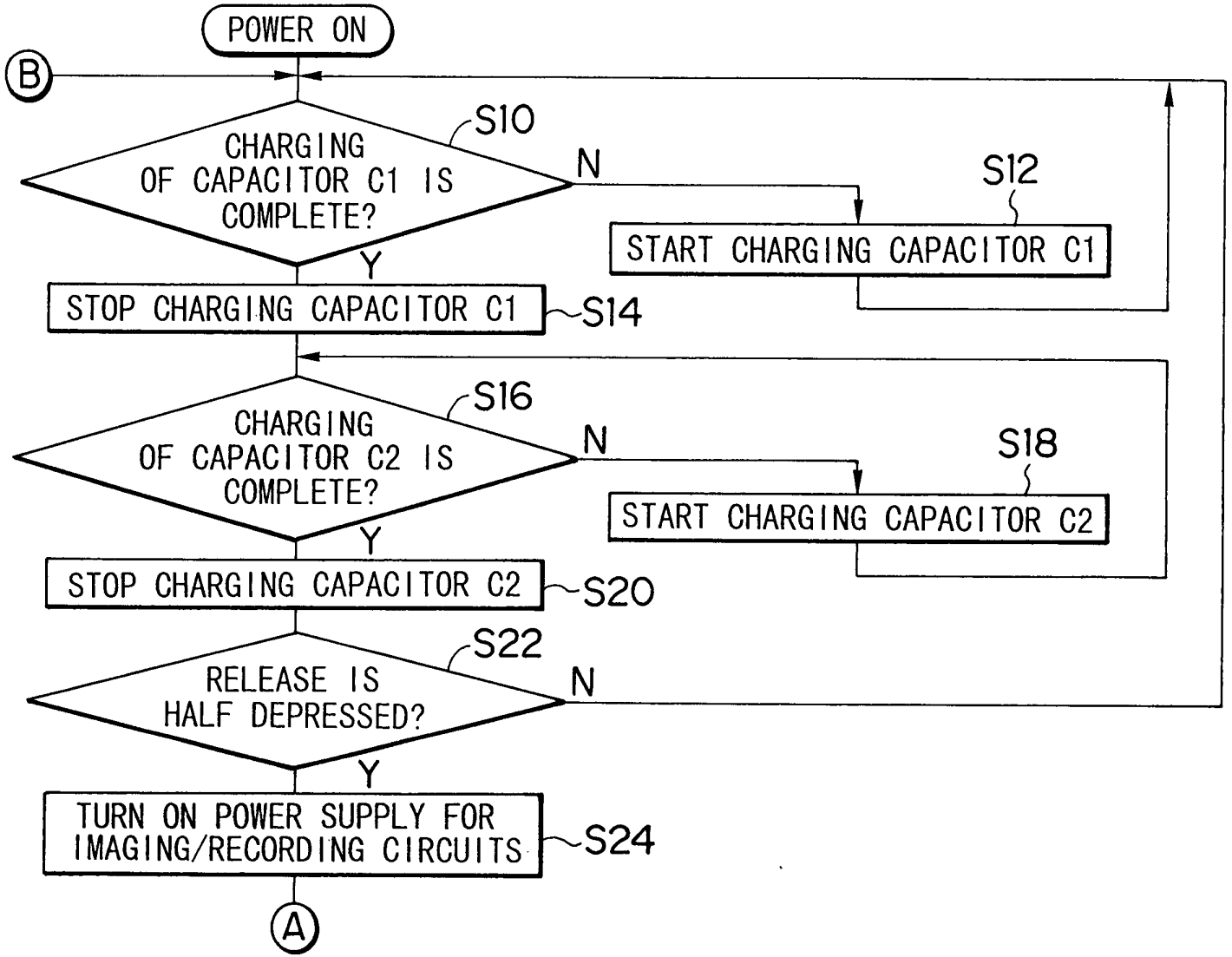
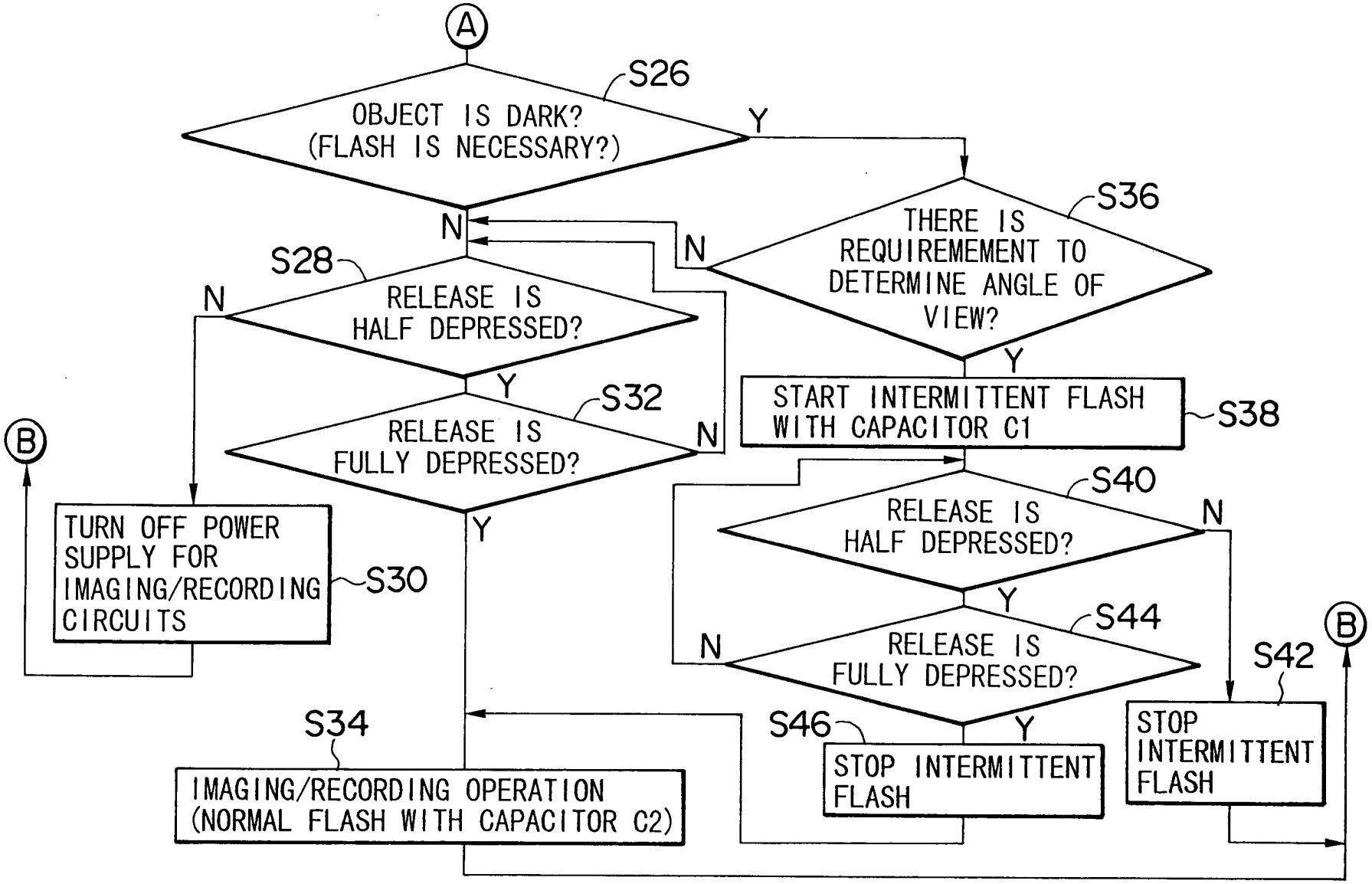

POWER ON
B
S10
CHARGING OF CAPACITOR C1 IS COMPLETE?
N
S12
START CHARGING CAPACITOR C1
Y
STOP CHARGING CAPACITOR C1
S14
S16
CHARGING OF CAPACITOR C2 IS COMPLETE?
N
S18
START CHARGING CAPACITOR C2
Y
STOP CHARGING CAPACITOR C2
S20
S22
RELEASE IS HALF DEPRESSED?
N
Y
TURN ON POWER SUPPLY FOR IMAGING/RECORDING CIRCUITS
S24
A

FIG. 4 (B)


A
S26
OBJECT IS DARK?
(FLASH IS NECESSARY?)
Y
N
S36
THERE IS
REQUIREMEMENT TO
DETERMINE ANGLE OF
VIEW?
N
S28
RELEASE IS
HALF DEPRESSED?
N
Y
START INTERMITTENT FLASH
WITH CAPACITOR C1
S38
Y
S32
RELEASE IS
FULLY DEPRESSED?
N
B
S40
RELEASE IS
HALF DEPRESSED?
N
TURN OFF POWER
SUPPLY FOR
IMAGING/RECORDING
CIRCUITS
S30
Y
S44
RELEASE IS
FULLY DEPRESSED?
N
B
S42
S34
S46
STOP INTERMITTENT
FLASH
STOP
INTERMITTENT
FLASH
IMAGING/RECORDING OPERATION
(NORMAL FLASH WITH CAPACITOR C2)